Solutions Brief
Axis Communications* & Buffalo Americas*
Intel® Digital Security Surveillance (DSS)

Simple, Affordable Video Surveillance for Small Businesses and Homes

Industry leaders Axis* Communications and Buffalo* Americas deliver a hassle-free, digital security and surveillance (DSS) solution—including Axis network cameras, Buffalo NAS storage, video management software, mobile viewing options and more—in an affordable, turnkey system based on Intel® technology.

OVERVIEW

Advances in IP camera and network storage technologies are allowing digital security and surveillance (DSS) solutions to deliver professional grade capabilities at price points that are friendly to many small businesses (SMBs) and property owners. With powerful, versatile video cameras and terabytes of storage, today's DSS solutions are ideal for capturing viewing, archiving and analyzing all kinds of surveillance footage, offering more effective ways to safeguard people and property.

To be successful in the SMB market, DSS solutions need to be simple to set up and easy to manage. Buffalo and Axis have achieved this by using embedded API coding to create seamless integration between the camera and storage components.

The result is an easy-to-configure, scalable camera network. Adding or removing cameras is a simple process and the entire network can be managed through iOS or Android devices. With support for up to 16 cameras and reliable, redundant storage, the result is an affordable, turnkey system.

DESIGNED FOR SIMPLICITY

Axis and Buffalo are long-time industry leaders in the video surveillance and network storage markets. Axis has the broadest and most consistent range of high-quality network cameras available today. Buffalo delivers storage solutions specifically designed for SMBs. Together, they have used their experience and expertise to create a surveillance solution that combines simplicity and performance:

Sized Right:
The Axis/Buffalo solution is the right size for entry-level needs. Start small and easily scale to 16 cameras and eight terabytes of storage respectively.

One-click Set Up:
The Axis/Buffalo solution works out of the box requiring minimal programming and technical expertise. The one-click set-up offers quick and seamless integration, allowing users to establish an IP-based camera network in minutes.

Flexible Viewing Options:
Easily view footage anytime, anywhere on virtually any PC or mobile device using the free Axis mobile app and Axis Camera Companion software.

IDEAL FOR A WIDE RANGE OF USES

The Axis/Buffalo video surveillance solution meets the needs of a wide range of markets:

RETAIL

Loss prevention and business intelligence functions including traffic patterns, heat mapping, people counting and more.

HOSPITALITY

Opportunities for comprehensive coverage that enhances the safety and security of guests as well as improved operations efficiency using analytics for business intelligence.

MEDICAL CLINICS

Protection for patients and increased security against theft of controlled substances.

SCHOOLS

Enhanced safety and security for students, teachers and staff.

RESIDENTIAL

Increased security for personal property, family and friends.

WHAT'S INCLUDED

Video Recording: At the heart of the solution is the Buffalo TeraStation™ 5200 Network Video Recorder (NVR). Based on an Intel® Atom™ processor (D2550; 1.86 GHz dual-core / 2 GB DDR3 RAM), the Buffalo NVR delivers advanced RAID technology and redundant storage components for maximum reliability and uptime. Two hard drives offer up to eight terabytes of storage, enough for months of 24x7 recording. Redundant, hot-swap configuration ensures the footage is there even in the case of failure.

Cameras: Customize any solution with the Axis camera best suited for the situation. Mix and match from the entire Axis portfolio—outdoors or indoors, obvious or discreet. Axis cameras capture clear video even in difficult lighting conditions and also support advanced features such as audio and motion detection, tampering alarms and third-party analytics and applications.

Software for Configuration and Viewing: Axis Camera Companion video management software (VMS) offers a comprehensive viewing platform with no additional cost or licensing fees. Axis Camera Companion delivers the one-click set-up for the network, automatically finding all Axis cameras. This intuitive software also offers a range of viewing and management capabilities for accessing live video feeds as well as searching recorded video and exporting clips. View video anytime from anywhere with PC and mobile apps for iOs and Android devices.

Networking: Users can run the system over existing wired or wireless networks. Take advantage of Power-over-Ethernet (e.g., Buffalo PoE Web Managed Switch) for lower costs, greater installation flexibility and increased reliability. Segment network traffic for increased performance and reliability.

Support and Protection: Axis Communications offers US-based technical support via phone at (800) 444-2947 option 4, or chat at axis.com/techsup. Warranty options range from 1-5 years with the extended warranty coverage option. Buffalo offers technical support via phone (866) 752-6210 or online at buffalotech.com/contact/support. Warranty options include a standard three year hardware warranty with free life-time technical support and an optional five year enhanced warranty providing a next business day replacement guarantee.

AVAILABILITY

The Axis/Buffalo Solution is available in North America.

NEXT STEPS

Contact Intel® Internet of Things Solutions Alliance members Axis Communications or Buffalo Americas for more information about this powerful DSS solution for small businesses.

Solutions Brief
Axis Communications* & Buffalo Americas*
Intel® Digital Security Surveillance (DSS)

BUFFALO TERASTATION™ 5200 NETWORK VIDEO RECORDER

Feature	Specification
Processor	Intel® Atom™ processor D2550 (1.86 GHz dual-core / 2 GB DDR3 RAM)
NICs	2 Intel Network Interface Cards
Ports	2 USB 2.0 ports and 2 USB 3.0 ports with accessory support
Drives	2 (3.5" HDD)
Drive Capacities	1 TB, 2 TB, 4 TB
Drive Interface	SATA II/III 3 Gbps
Supported RAID Levels	RAID 0/1/JBOD (Individual Disks)

AXIS® CAMERAS

Feature	Specification
Chip Set	ARTPEC chip set—custom built for video surveillance
Resolution	720p or 1080p HDTV
Video Compression	Multiple video compression options with H.264 and MJPEG
Applications	Third party analytics and applications can run directly on equipped Axis cameras
Security	Cameras are secured with password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication and a user access log

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Intel® Technology Provider

See everything – anytime and anywhere with the latest Internet of Things solution

Intel® and Axis/Buffalo Digital Security Surveillance puts it all together – including points for you

Take a look at the latest Internet of Things solution: Axis*/Buffalo* Digital Security Surveillance (DSS). Powered by the Intel® Atom™ processor, DSS is the simple, affordable, state-of-the-art innovation for small businesses and homes. Featuring Axis* network cameras, Buffalo* NAS storage, video management software, mobile viewing options and more, DSS provides a turnkey system for your customers.

Deliver cutting-edge technology and bring the Internet of Things to life

- **Video Recording** – the Buffalo* TeraStation™ 5200 Network Video Recorder (NVR) is powered by an Intel® Atom™ processor to provide advanced RAID technology and redundant storage components.

- **Cameras** – Axis* cameras can customize solutions for any situation, outdoors or indoors, obvious or discreet, capturing clearvideo even in difficult lighting conditions.
- **Software for Configuration and Viewing** – Axis* Camera Companion video management software (VMS) offers a comprehensive viewing platform with no added cost or licensing fees, delivering the one-click set-up for the network that automatically finds all Axis* cameras.
- **Networking** – users can run the system over existing wired or wireless networks, taking advantage of Power-over-Ethernet.
- **Support and Protection** – Axis* offers US-based technical support via phone or chat, with warranty options ranging from 1-5 years with the extended warranty coverage option; Buffalo* offers technical support via phone or online, with warranty options including a standard three-year hardware warranty with free life-time technical support.

AXIS COMMUNICATIONS

BUFFALO™

This Intel® IoT solution offers great things for you and your customers

Act now to earn 2,000 points for qualifying purchases of Axis*/Buffalo* DSS, powered by Intel® technology. Hurry, the IoT promotion ends June 30, 2015. Learn more now.

Terms and Conditions

- Valid from February 16, 2015 to June 30, 2015
- You must be an active Intel® Technology Provider Program Gold or Platinum Partner eligible to earn points
- Promotional points will be awarded 4-6 weeks after promotion end date
- Points terms and conditions apply
- Product available through Ingram Micro only
- Available to US partners only
- Limit of 5 qualified SKUs, 10,000 points per business

Your solutions. Our technology. **Smarter together.**

intel

BUFFALO
PERFORMANCE MATTERS

TS5200DS

TeraStation™ 5200 NVR

16-Channel Network Video Recorder

Buffalo's TeraStation 5200 Network Video Recorder (NVR) is an easy to use, turnkey network video recording appliance that offers redundant managed storage and recording. It provides high compatibility with AXIS® Camera Companion for seamless, drop-in installation for SMB and home surveillance environments. TeraStation 5200 NVR supports plug-and-play, One-Click setup with high-performance architecture, ideal for recording and archiving video footage from up to 16 Axis network cameras.

- One-Click camera and NVR configuration
- Redundant managed storage and recording solution
- High capacity for scalability
- Supports up to 16 camera installations
- Compatibility with AXIS Camera Companion and supported mobile viewing apps from Axis partners
- Intel® Atom™ processor D2550 (1.86 GHz dual-core / 2 GB DDR3 RAM)
- Dual Intel NICs
- 2 x USB 2.0 ports and 2 x USB 3.0 ports with accessory support
- RAID 0/1/JBOD (Individual Disks)
- Hot-swap hard drives
- High-performance hard drives optimized for network storage
- Ideal for small businesses and home users

BUFFALO
PERFORMANCE MATTERS

TS5200DS

TeraStation™ 5200 NVR

16-Channel Network Video Recorder

PRODUCT FEATURES

TURNKEY SOLUTION

TeraStation 5200 NVR appliance is a turnkey surveillance solution for small business and home users. it is designed for easy, hassle-free deployment with drop-in installation and effortless system setup. In just a few short steps, users can set up and run a fully- functioning surveillance network within minutes.

ONE-CLICK CAMERA INSTALLATION

TeraStation 5200 NVR offers One-Click installation and compatibility with AXIS Camera Companion for quick and seamless network integration. The entire configuration can be completed in a matter of minutes with no technical or network expertise required.

REDUNDANT MANAGED STORAGE & RECORDING

TeraStation 5200 NVR features redundant storage components for continued operation if failures occur, ensuring maximum reliability and uptime. This advanced RAID 1 technology is completely automated and preconfigured, offering immediate fault-tolerance out of the box.

SUPPORTS UP TO 16 CAMERAS

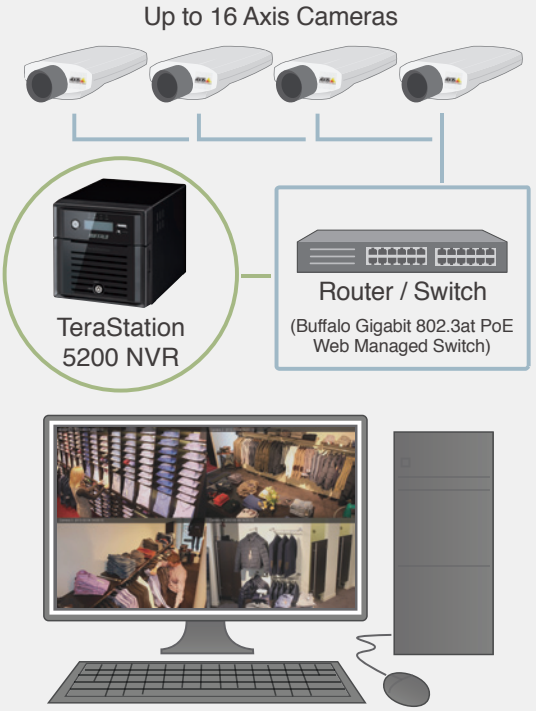
TeraStation 5200 NVR supports up to 16 HD Axis cameras, running at 30fps, for a sizable network video solution from the start or scalability for the future. Cameras can be added at any time with no added fees.

USE WITH AXIS CAMERA COMPANION

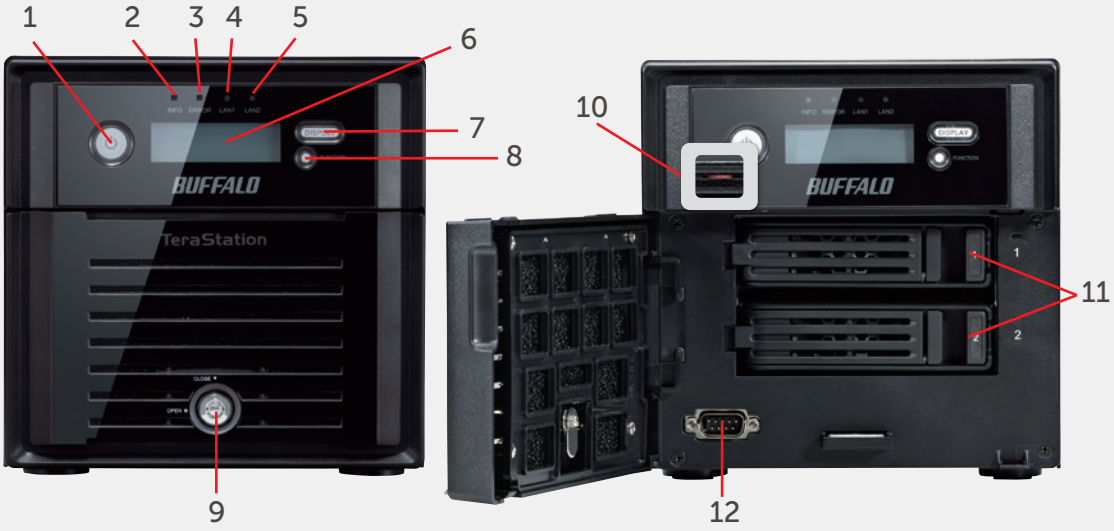
With AXIS Camera Companion, TeraStation 5200 NVR can record and playback video from any Axis network camera and users can view videos at anytime and anywhere with third party iOS and Android mobile apps. Setup is simple, requiring no complicated installation or network configurations.

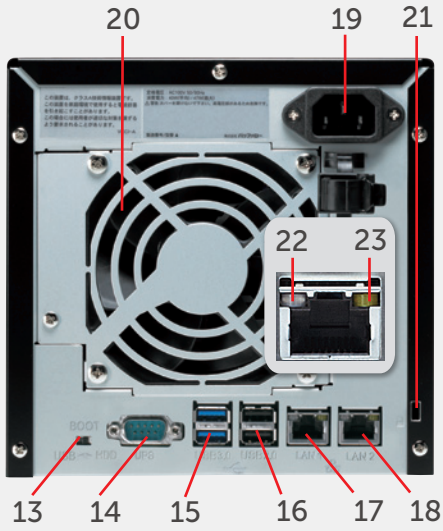
SCALABLE SOLUTION

TeraStation 5200 NVR offers a scalable solution for months of video retention. Users can start with just a few cameras and easily add more at any time - up to 16 cameras. Paired with a Buffalo PoE Web Managed Switch, this turnkey solution offers cost-effective, complete video surveillance management.



PC with AXIS Camera Companion for live viewing and configuration. Download AXIS Camera Companion from www.axis.com





1	Power Button	7	Display Button	13	Boot Mode Switch	19	Power Connector
2	Info LED	8	Funtion Button	14	UPS Port	20	Fan
3	Error LED	9	Drive Lock	15	USB 3.0 Port	21	Anti-Theft Security Slot
4	LAN 1 LED	10	Reset Button	16	USB 2.0 Port	22	Link LED
5	LAN 2 LED	11	Status LEDs	17	LAN Port 1	23	Act LED
6	LCD Panel	12	For Factory Use Only	18	LAN Port 2		

BUFFALO
PERFORMANCE MATTERS

TS5200DS

TeraStation™ 5200 NVR

16-Channel Network Video Recorder

PRODUCT SPECIFICATIONS

LAN INTERFACE

Standard Compliance:	IEEE802.3/IEEE802.3u/IEEE802.3ab
Data Transfer Rates:	10/100/1000 Mbps (Auto Sensing)
Connector Type:	RJ-45
Number of Ports:	2

INTERNAL HARD DRIVES

Number of Drives:	2 x 3.5" HDD
Hard Drive Capacities:	1 TB, 2 TB, 4 TB
Total Capacity:	2 TB, 4 TB, 8 TB
Drive Interface:	SATA II/III 3 Gbps
Supported RAID Levels:	RAID 0/1/JBOD (Individual Disks)

USB INTERFACE

Interface	USB 3.0 / USB 2.0
Number of Ports:	2 x USB 3.0
	2 x USB 2.0
Data Transfer Rates:	5 Gbps (USB 3.0)
	480 Mbps (USB 2.0)

PROTOCOL SUPPORT

Networking:	TCP/IP
File Sharing:	CIFS/SMB, AFP, HTTP/HTTPS, FTP/SFTP/FTPS, NFS
Directory Integration:	LDAP, Active Directory
Management:	HTTP/HTTPS
Time Synchronization:	NTP

OTHER

Dimensions (LxWxH):	9.1 x 6.7 x 6.6 in
Weight:	9.9 lbs
Operating Environment:	41-95°F (5-35°C), 20-80% (non-condensing)
Power Supply:	Internal AC 100-240V Universal, 50/60 Hz
Power Consumption:	65 W (Maximum)
Setup Utility OS Support:	Windows® Operating Systems
Client OS Support:	Windows® 8.1 (32-bit/64-bit), Windows® 8 (32-bit/64-bit), Windows® 7 (32-bit/64-bit), Windows® 7 Professional (64-bit), Windows Vista® (32-bit/64-bit), Windows® XP, Windows® 2000, Windows Server® 2008, Windows Server® 2008 R2, Windows Server® 2003, Windows® 2000 Server, Mac OS® X up to 10.10

SUGGESTED ACCESSORIES

Buffalo 8-Port Rackmount Gigabit 802.3 at PoE Web Managed Switch (BSL-PS-G2108M)

Buffalo 16-Port Rackmount Gigabit 802.3 at PoE Web Managed Switch (BSL-PS-G2116M)

Optional 5-Year warranty (EWNBD03)

BOX CONTENTS

TeraStation 5200 NVR, Ethernet Cable, AC Cable, Front Panel Key, Quick Setup Guide, Warranty Statement

AVAILABLE MODELS

TS5200D0202S, TS5200D0402S, TS5200D0802S

24/7 TECH SUPPORT | 3 YEAR WARRANTY

(866) 752-6210 | USA & Canada Only

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BUFFALO
PERFORMANCE MATTERS

N300

WHR-300HP2
HIGHPOWER

HIGH PERFORMANCE

HIGHPOWER N300 WIRELESS ROUTER

Buffalo's AirStation HighPower N300 Wireless Router is a fast wireless solution, ideal for creating a high speed wireless home network. With wireless speeds up to 300 Mbps, it is perfect for surfing the web, emailing, connecting to social media and more. Coupled with HighPower technology, the AirStation HighPower N300 Wireless Router provides exceptional range and increased performance at range for a better connection anywhere on your home network. Multi-level wireless encryption options and an easy-to-use step-by-step setup wizard that guides you through configuration from start to finish allows you to set up a secure, high performance wireless network within minutes of opening the box.

FEATURES

MAXIMUM WIRELESS COVERAGE

Dead spots in your home or office can slow down your wirless access and even prevent you from getting online. Advaced HighPower Technology from Buffalo enhances signal strength and can almost double the range.

- Stay connected from anywhere in your home or office
- Connect with confidence every time

FAST WIRELESS CONNECTIVITY

With speeds up to 300 Mbps on the 2.4 GHz band, AirStation HighPower N300 Wireless Router provides a fast wireless connection perfect for surfing and emailing from multiple computers, downloading files and streaming music, movies and other multimedia content from the Web. Easily connect with your computer, tablet and smartphone devices.

EASY SETUP

AirStation HighPower N300 Wireless Router features an easy-to-use step-by-step setup wizard that guides you through configuration from start to finish. Within moments of opening the box you will have a secure wireless home network.

COMPATIBILITY

Easily upgrade to your network from the old Wireless-G standard and maintain compatibility with existing adapters and devices. AirStation HighPower N300 Wireless Router works with any new Wireless-N device as well as the previous generation Wireless-G.

WIRELESS SECURITY

AirStation HighPower N300 Wireless Router features multi-level wireless encryption options to prevent unauthorized access and protect your important data.

- WPA2, WPA-PSK (AES, TKIP), 128/24-bit WEP
- AOSS and WPS push button setup options automatically configure a secure wireless connection

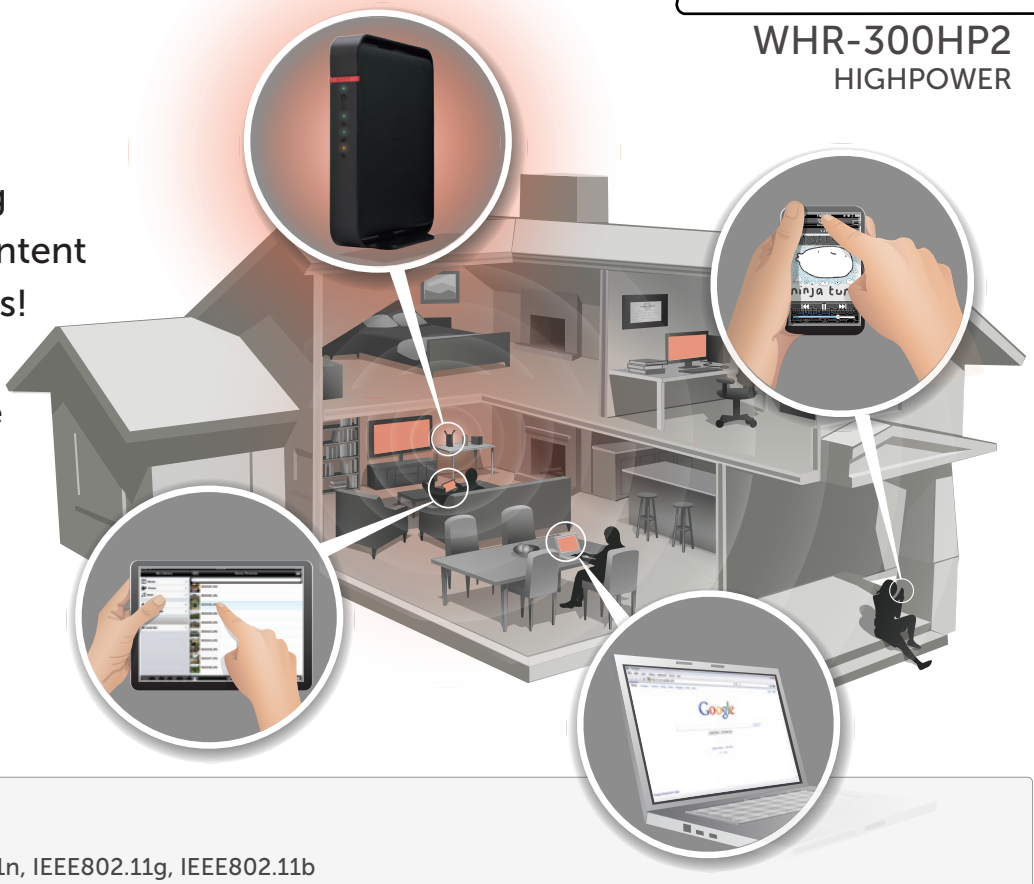
BUFFALO™
PERFORMANCE MATTERS

N300

WHR-300HP2
HIGHPOWER

Simple home networking connects you to your content at speeds up to 300 Mbps!

- HighPower Technology provides excellent coverage
- Email and surf the web
- Connect your smartphone and tablet devices
- Stream your favorite music



SPECIFICATIONS

WIRELESS LAN INTERFACE

Standard Compliance:	IEEE802.11n, IEEE802.11g, IEEE802.11b
Frequency Range:	2.4 GHz
Access Mode:	Infrastructure Mode
Antenna (Tx x Rx):	2 x 2
Wireless Security:	WPA2, WPA-PSK (AES, TKIP), 128/64-bit WEP

WIRED LAN INTERFACE

Speed and Flow Control:	10/100 Mbps, Auto Sensing, Auto MDIX
Number of LAN Ports:	4 x RJ-45
Number of WAN Ports:	1 x RJ-45
WAN Port Security:	VPN Pass Through, SPI, Dynamic Packet Filtering

OTHER

Dimensions (W x H x D)	5.14 x 6.26 x 2.16 in
Weight	0.58 lbs
Power Consumption	Max 10.2W
Power Supply:	External AC 100-240V, 50/60Hz
OS Compatibility:	Windows® 8 (32/64-bit), Windows® 7 (32/64-bit), Windows Vista® (32/64-bit), Windows® XP, Mac OS® X 10.4-10.7**

**AOSS support requires use of Buffalo Client Manager software which is only compatible with Windows® systems. Some initial setup utilities only work with Windows systems.

BOX CONTENTS

- AirStation HighPower N300 Wireless Router
- Quick Setup Guide
- Setup CD-ROM
- Setup Card
- Ethernet Cable
- AC Adapter
- Stand
- Screws for Wall Mounting
- Warranty Statement

24/7 TECH SUPPORT | 3 YEAR WARRANTY
(866) 752-6210 | USA & Canada Only

*300 Mbps is the maximum wireless signal rate derived from IEEE 802.11n standard specifications achievable using two streams of 150 Mbps each. Actual data throughput and range will vary depending upon network conditions and environmental factors, including volume of network traffic, building materials and construction and network overhead. Maximum speed and range is achievable when used with same enhanced mode technology.

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BUFFALO
PERFORMANCE MATTERS

BS-GU/BS-GUP Series

(BS-GU2005, BS-GU2008, BS-GU2008P, BS-GU2016, BS-GU2016P, BS-GU2024)

Green Ethernet Gigabit Switches

- Lifetime warranty*
- 5/8/16/24 gigabit Ethernet ports
- 802.3az Green Ethernet technology
- Automatic energy conservation feature reduces total power consumption
- Loop prevention or detection (depending on model)
- Auto-MDIX provides fast plug and play setup with any Ethernet cable
- Durable metal chassis
- Internal power supply
  BS-GU2008P uses external power supply
- Fanless, compact design offers silent and reliable operation

*Requires product registration within 30 days of purchase

Multi-Port Gigabit Unmanaged Switches

Buffalo's BS-GU series of multi-port gigabit switches and BS-GUP series of multi-port gigabit PoE switches offer an easy and cost-effective way to extend your business network at gigabit speeds and the convenience of Power over Ethernet (BS-GUP series). Plug and play installation requires no additional software or configuration. Each auto-sensing gigabit port automatically detects and configures the correct connection while full duplex operation and optional jumbo frame support provide maximum performance.

Buffalo's multi-port gigabit switches include power saving features like 802.3az Green Ethernet technology and an energy conservation feature that monitors the activity status of each port to reduce the total power consumed, therefore reducing related operational costs.

Gigabit speeds, eco-minded features and a lifetime warranty make Buffalo's BS-GU and BS-GUP series of multi-port gigabit switches a perfection network extension solution for your office.

BUFFALO
PERFORMANCE MATTERS

BS-GU/BS-GUP Series

(BS-GU2005, BS-GU2008, BS-GU2008P, BS-GU2016, BS-GU2016P, BS-GU2024)

PRODUCT SPECIFICATIONS

MODELS	BS-GU2005	BS-GU2008	BS-GU2008P	BS-GU2016	BS-GU2016P	BS-GU2024
LAN INTERFACE						
Number of Ports	5	8	8 (6 x 802.3af PoE)	16	16 (12 x 802.3af PoE)	24
PERFORMANCE						
Switching Capacity	10 Gbps	16 Gbps	16 Gbps	32 Gbps	32 Gbps	48 Gbps
Buffer Memory	256 KB	256 KB	256 KB	512 KB	512 KB	512 KB
ENVIRONMENTAL & POWER						
Power	Internal AC 100-240V, 50/60 Hz	Internal AC 100-240V, 50/60 Hz	External AC 100-240V, 50/60 Hz	Internal AC 100-240V, 50/60 Hz	Internal AC 100-240V, 50/60 Hz	Internal AC 100-240V, 50/60 Hz
Power Consumption	Max 2.9W	Max 60W	Max 60W	Max 9.1W	Max 148W	Max 13.5W
PoE Budget	N/A	N/A	N/A	N/A	N/A	N/A
Operating Temperature	32˚-122˚F (0˚-50˚C)	32˚-122˚F (0˚-50˚C)	32˚-122˚F (0˚-50˚C)	32˚-122˚F (0˚-50˚C)	32˚-122˚F (0˚-50˚C)	32˚-122˚F (0˚-50˚C)
Operating Humidity	10-85% non-condensing	10-85% non-condensing	10-85% non-condensing	10-85% non-condensing	10-85% non-condensing	10-85% non-condensing
LOOP CONTROL	detection	detection	prevention	prevention	prevention	prevention
SHIPPING						
Dimensions (LxWxH)	7.09 x 4.02 x 1.18 in	7.09 x 4.02 x 1.18 in	7.87 x 6.34 x 1.61 in	8.46 x 5.11 x 1.69 in	12.99x 9.09 x 1.69 in	11.81 x 7.09 x 1.69 in
Weight	1.0 lbs	1.2 lbs	2.2 lbs	2.4 lbs	5.5 lbs	3.5 lbs

INTERFACE SPECIFICATIONS	
Standard Compliance	IEEE802.3 (10BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3ab (1000BASE-T), AUTO-MDIX
Flow Control	IEEE802.3x
Connector	RJ-45 8-pin connector (shielded)
PERFORMANCE	
Data Transfer Rates	10/100/1000 Mbps
Transmission Speeds	1000 Mbps (1000 BASE-T), 100 Mbps (100 BASE-TX), 10 Mbps (10 BASE-T)
Switching Method	Store & Forward
Jumbo Frame	9,216 Bytes (Header 14 Bytes + FCS 4 Bytes inclusive)
Transfer Encryption Method	8B1Q4/4D-PAM5 (1000 BASE-T), 4B5B/MLT-3 (100 BASE-TX), Manchester encoding (10 BASE-T)
Access Method	CSMA/CD
Data Transfer Speed	1,488,095 packets/second (1000 BASE-T), 148,810 packets/second (100 BASE-TX), 14,881 packets/second (10 BASE-T)
MAC Address Table	8,190 (Self Learning)
Aging Time	Default 300 seconds
OTHER FUNCTIONS	Loop detection or prevention, Power saving feature
REGULATIONS	
Acquired Standards	VCCI Class A, UL60950-1, FCC Class A, Canada IC Class A, VCCI Class A, FCC Class A, Canada IC Class A, UL
ACCESSORIES	
Compatible Cables	10BASE-T: Category 3 or higher, 100BASE-TX: 5 or more category, 1000BASE-T: Category 5e or better
BOX CONTENTS	Multi-Port Gigabit Switch, Power Cable, Rubber feet, 19-inch rack brackets*, Bracket screws*, Rack immobilization screws*, Serial Number Stickers, Manual, Warranty Statement *Rack mounting accessories not included with BS-GU2005, BS-GU2008 or BS-GU2008P

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